CLAIMS

What is claimed is:

1	1.	A method for network-based configuration of a programmable logic device,
2		comprising the steps of:
3	(a)	initiating a default application on a programmable logic device;
4	(b)	sending a file request for configuration data from the logic device to a server
5		located remotely from the logic device utilizing a network;
6	(c)	receiving the configuration data from the network server;
7	(d)	utilizing the configuration data for configuring the logic device to run a second
8		application; and
9	(e)	running the second application on the logic device.
1	2.	A method as recited in claim 1, wherein the configuration data is received in the
2		form of a bitfile.
1	3.	A method as recited in claim 1, wherein the logic device includes at least one
2		Field Programmable Gate Array (FPGA).
1	4.	A method as recited in claim 3, wherein a first FPGA receives the configuration
2		data, wherein the first FPGA configures a second FPGA utilizing the
3		configuration data.
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1	5.	A method as recited in claim 3, wherein the logic device includes first and
2		second FPGA's that are clocked at different speeds.

A method as recited in claim 1, wherein the default application and the second

application are both able to run simultaneously on the logic device.

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A method as recited in claim 1, wherein the logic device further includes at least

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2		one of a display screen, a touch screen, an audio chip, an Ethernet device, a
3		parallel port, a serial port, a RAM bank, and a non-volatile memory.
1	8.	A computer program product for network-based configuration of a
2	0.	programmable logic device, comprising:
3	(a)	computer code for initiating a default application on a programmable logic
4	()	device;
5	(b)	computer code for sending a file request for configuration data from the logic
6		device to a server located remotely from the logic device utilizing a network;
7	(c)	computer code for receiving the configuration data from the network server;
8	(d)	computer code for utilizing the configuration data for configuring the logic
9		device to run a second application; and
10	(e)	computer code for running the second application on the logic device.
1	9.	A computer program product as recited in claim 8, wherein the configuration
2		data is received in the form of a bitfile.
1	10.	A computer program product as recited in claim 8, wherein the logic device
2		includes at least one Field Programmable Gate Array (FPGA).
1	11.	A computer program product as recited in claim 10, wherein a first FPGA
2	11.	receives the configuration data, wherein the first FPGA configures a second
3		FPGA utilizing the configuration data.

A computer program product as recited in claim 10, wherein the logic device

includes first and second FPGA's that are clocked at different speeds.

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A computer program product as recited in claim 8, wherein the default 1 13. application and the second application are both able to run simultaneously on the 2 logic device. 3 A computer program product as recited in claim 8, wherein the logic device 14. 1 further includes at least one of a display screen, a touch screen, an audio chip, an 2 Ethernet device, a parallel port, a serial port, a RAM bank, and a non-volatile 3 memory. 4 A system for network-based configuration of a programmable logic device, 15. 1 comprising: 2 logic for initiating a default application on a programmable logic device; 3 (a) logic for sending a file request for configuration data from the logic device to a (b) 4 server located remotely from the logic device utilizing a network; 5 logic for receiving the configuration data from the network server; 6 (c) logic for utilizing the configuration data for configuring the logic device to run a 7 (d) second application; and 8 logic for running the second application on the logic device. 9 (e) A system as recited in claim 15, wherein the configuration data is received in the 1 16. form of a bitfile. 2 A system as recited in claim 15, wherein the logic device includes at least one 17. 1 Field Programmable Gate Array (FPGA). 2 A system as recited in claim 17, wherein a first FPGA receives the configuration 18. 1 data, wherein the first FPGA configures a second FPGA utilizing the 2

configuration data.

- 1 19. A system as recited in claim 17, wherein the logic device includes first and second FPGA's that are clocked at different speeds.
- 1 20. A system as recited in claim 15, wherein the default application and the second application are both able to run simultaneously on the logic device.
- 1 21. A system as recited in claim 15, wherein the logic device further includes at
 2 least one of a display screen, a touch screen, an audio chip, an Ethernet device, a
 3 parallel port, a serial port, a RAM bank, and a non-volatile memory.